



# Disabled Refuge Call System Monitored Direct Call System (MDC)

Revision 2, 16<sup>th</sup> November 2007



- 'Point to point' two way monitored voice link.
- Four way indication
- Battery supported 24V DC power supply.
- Conventional telephone 'ring' tones.
- Visual and audible calling indication states.
- Up to four remote outstations, with individual call status indications on central panel.

|                |                                   |
|----------------|-----------------------------------|
| Dimensions: -  |                                   |
| Control panel  | 350mm (H) x 370mm (W) x 1.5mm (D) |
| Flush back box | 310mm (H) x 330mm (W) x 75mm (D)  |
| Surface Sleeve | 392mm (H) x 412mm (W) x 81mm (D)  |

The system provides a simple means of connecting up to four remote locations to a central (master) station using an independent telephone link, continuously monitored when not in use, and utilising a battery supported power supply, to allow compliance with the relevant sections of BS5839.

In the simplest configuration, two handsets automatically calls the other when lifted. Lifting the second handset will cancel the ringing current, and allow a normal **TWO WAY** telephone conversation to take place.

Replacing both handsets resets the system.

Up to a maximum of 4 remote units can be used at slave positions and still be monitored. To enable the four individual call location Led's to function, each remote station is connected via a separate single pair cable. Where more than one unit is 'daisy chained' on a single cable, only a single call indication will be reported. All units may conference on the line if required.

In a quiescent state, the system is monitored for power supply failure and line damage, in addition to handset removal. A volt free changeover contact is provided for remote fault reporting.

In the simplest configuration, a single pair cable is routed from the central unit to each location.

A mains powered 24 volt DC power supply, together with a monitored battery charger and system support batteries are contained in the central unit.

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The central station can be surface mounted if required. This is achieved by using the stainless steel, surface mounting sleeve. It is simple to use and secured to the standard flush mounting back box supplied with all systems. Two fixing screws secure the sleeve in place to the surface box. The stainless control panel is then secured, via the four corner fixings.



|                |                                    |
|----------------|------------------------------------|
| Dimensions: -  |                                    |
| Surface sleeve | 392mm x (H) x 412mm (W) x 81mm (D) |

The following remote units are available: -



A remote telephone handset outstation can be supplied. This can be provided in both surface and flush mounting (surface unit shown). This unit is finished in a green leatherette (BS4800 14E53) paint with a polycarbonate front label and houses a grey handset. By simply lifting the remote handset a call is made automatically to the central control panel. A duplex configuration similar to standard telephone will be initiated. These units can be surface or flush mounted (surface shown). The front face of the surface enclosure has a sloped frame (see dimensions below).

|                        |   |
|------------------------|---|
| Dimensions: -          |   |
| Surface                | 332mm (H) x 182mm (W) x 96mm (D Top), 81mm (D Bottom) |
| Flush                  | 372mm (H) x 232mm (W) x 1.5mm (D)                     |
| Back box behind flange | 332mm (H) x 182mm (W) x 77mm (D)                      |

A stainless steel hands free loud speaking version of the remote outstation can be supplied as an alternative. Both flush and surface mounting units can be supplied. The surface unit has a black leatherette (RAL9001) mild steel back box. A call is made by pressing the large momentary push button. This will illuminate the panel mounted 'call registered' led, and initiate a conventional telephone call tone from the panel loudspeaker.

|                  |                                   |
|------------------|-----------------------------------|
| Dimensions: -    |                                   |
| Surface back box | 290mm (H) x 217mm (W) x 55mm (D)  |
| Flush back box   | 230mm (H) x 155mm (W) x 50mm (D)  |
| Stainless panel  | 260mm (H) x 185mm (W) x 1.5mm (D) |





For those outdoors areas, a weatherproof option is also available. Enclosure is IP65 rated and a cream RAL7032 in colour. Units are supplied with wall mounting kit, door handle and lock. Handsets can also be supplied using the same enclosure. This item cannot be supplied with a flushing kit.

|               |                                   |
|---------------|-----------------------------------|
| Dimensions: - |                                   |
| Surface box   | 400mm (H) x 300mm (W) x 150mm (D) |

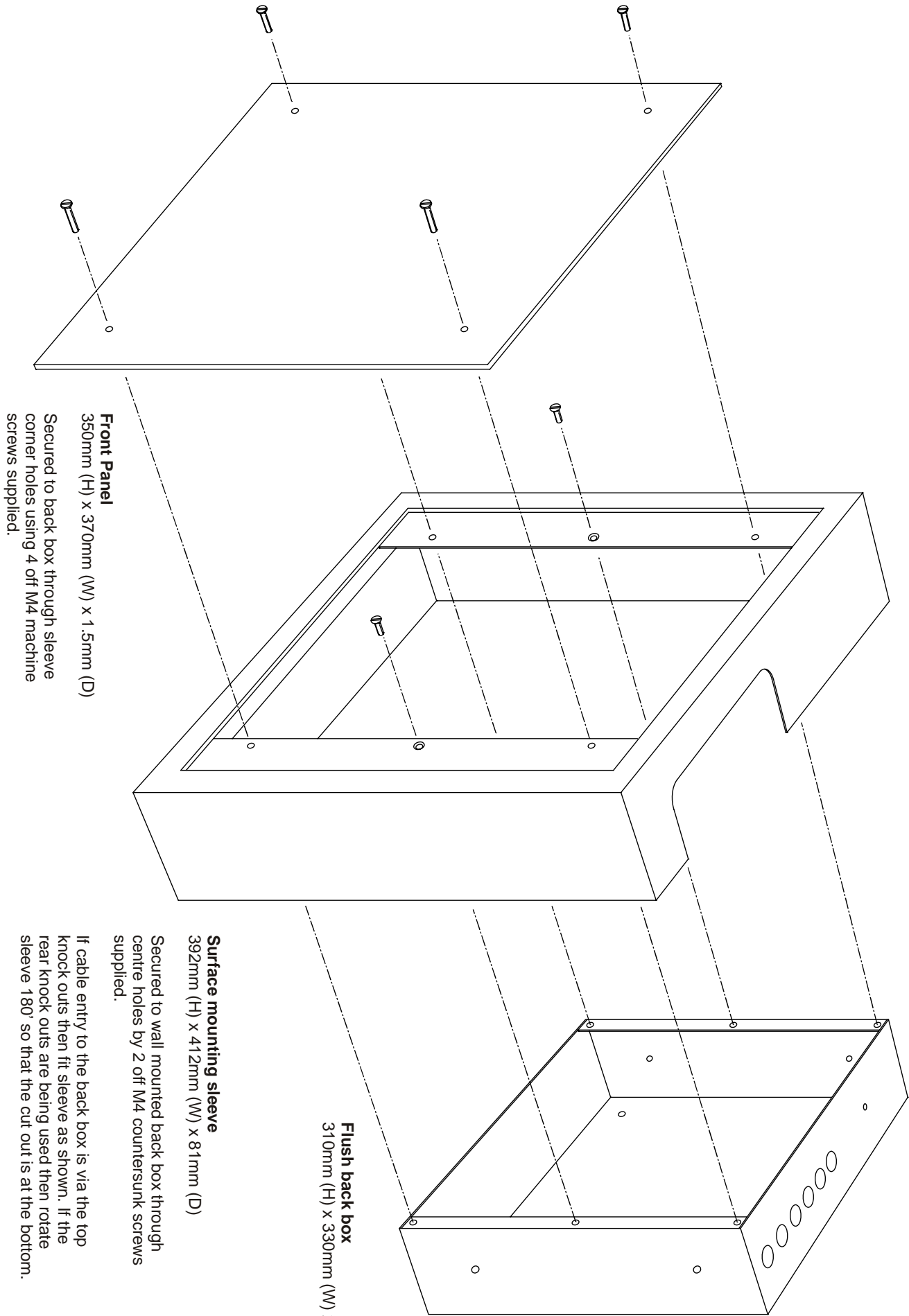
### Typical schematic for a four way (maximum) wired system



The MDC system can be wired by daisy chaining the remote units together. This can be more suitable for certain site designs. However by using this method the zonal indication will not operate. All remote units will indicate as zone 1. It is also essential that when wiring using this method, that the polarity of the cable is the same for each unit. It is also recommended that the 2 core to the last unit on the daisy chain is returned to give more stability to the system under an open circuit condition.

Other facilities fitted as standard on the MDC central control unit are: -

- Fault out (volt free)
- Anti-tamper facility (or fire alarm activate)(volt free) – Close contact to energise facility. Contact needs to be released to allow the system to operate.
- Call on system (volt free)
- Xenon beacon output for master or slave or both (24 volts)



**Front Panel**  
 350mm (H) x 370mm (W) x 1.5mm (D)

Secured to back box through sleeve corner holes using 4 off M4 machine screws supplied.

**Surface mounting sleeve**  
 392mm (H) x 412mm (W) x 81mm (D)

Secured to wall mounted back box through centre holes by 2 off M4 countersunk screws supplied.

**Flush back box**  
 310mm (H) x 330mm (W) x 75mm (D)

If cable entry to the back box is via the top knock outs then fit sleeve as shown. If the rear knock outs are being used then rotate sleeve 180° so that the cut out is at the bottom.

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